

FIGURE 1

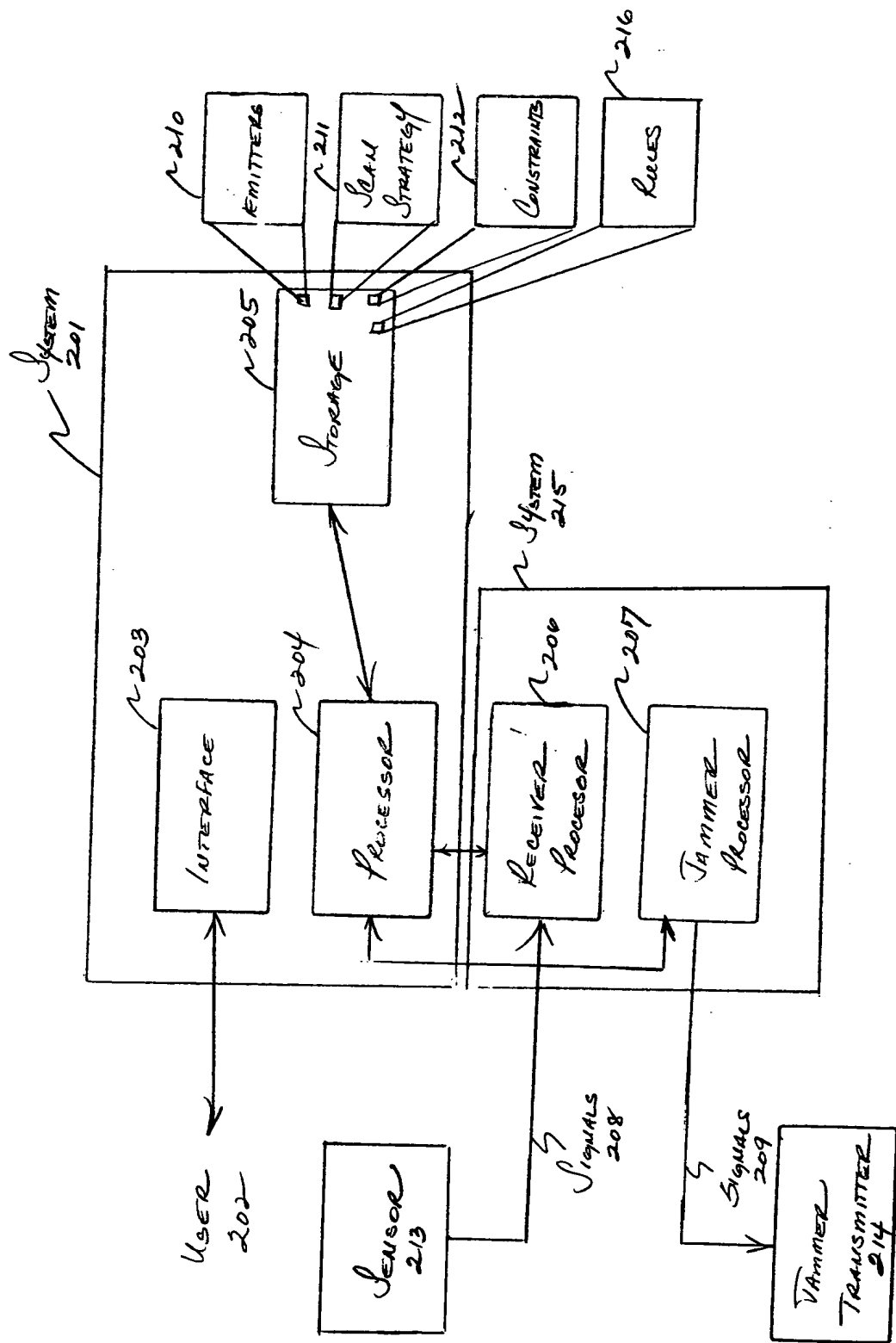
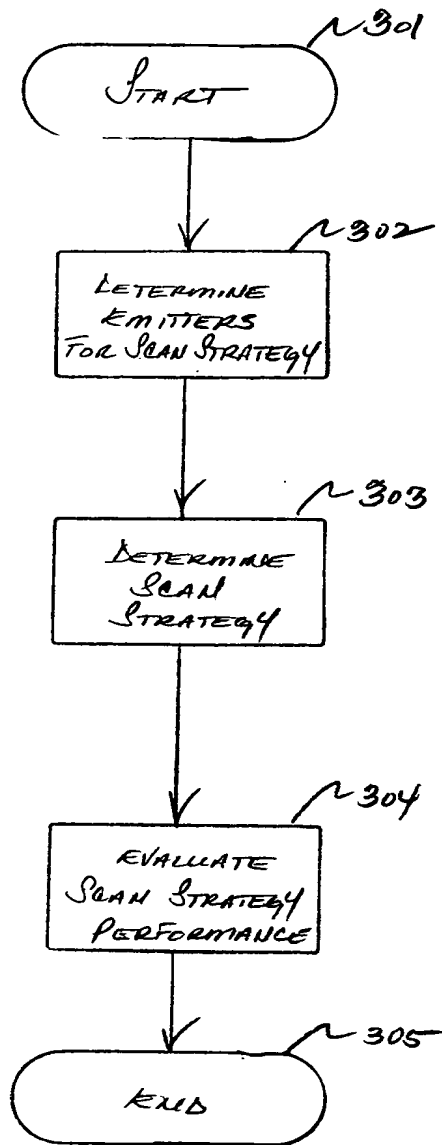


Figure 2



PROCESS
300

FIGURE 3

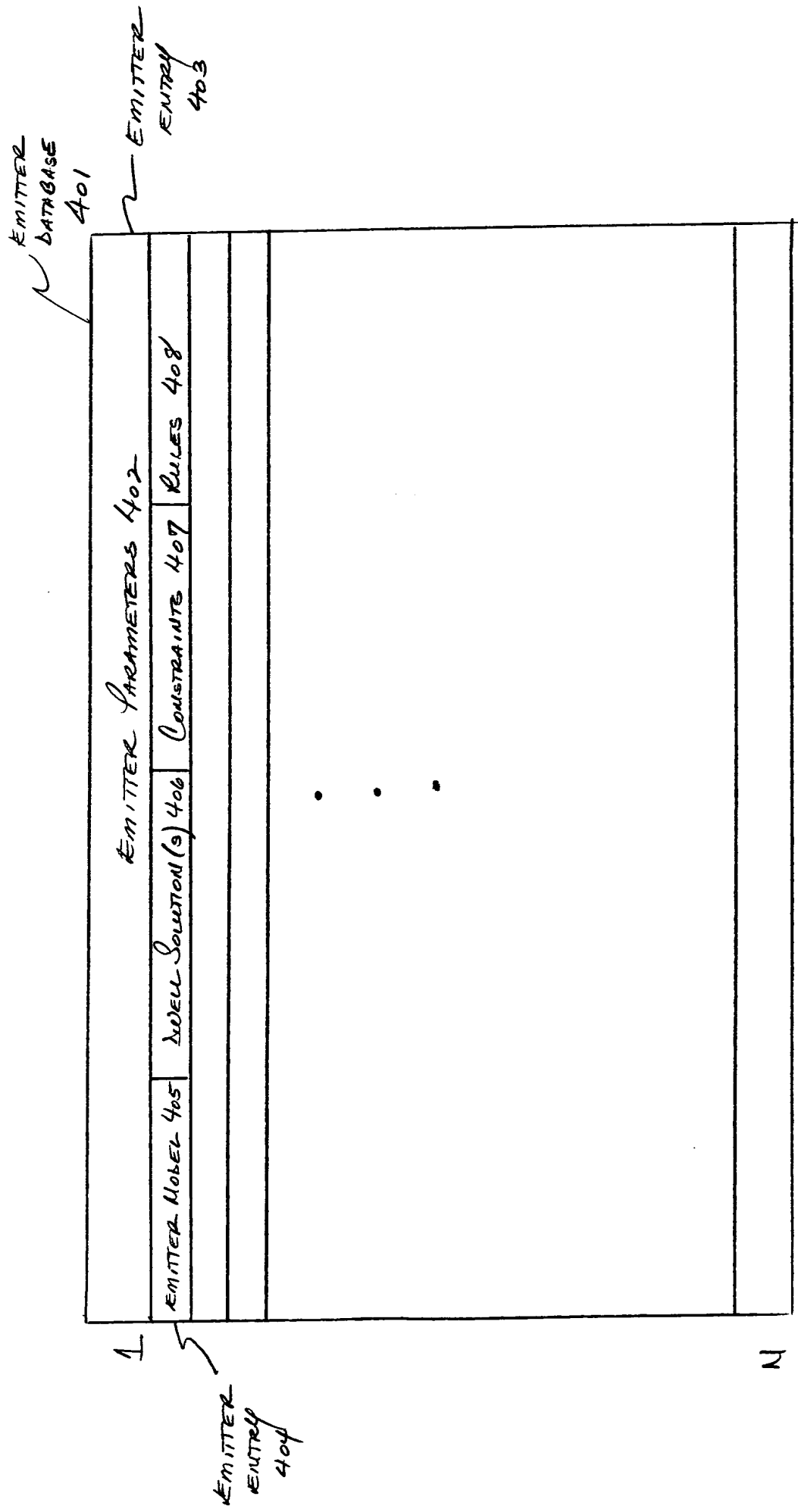


Figure 4

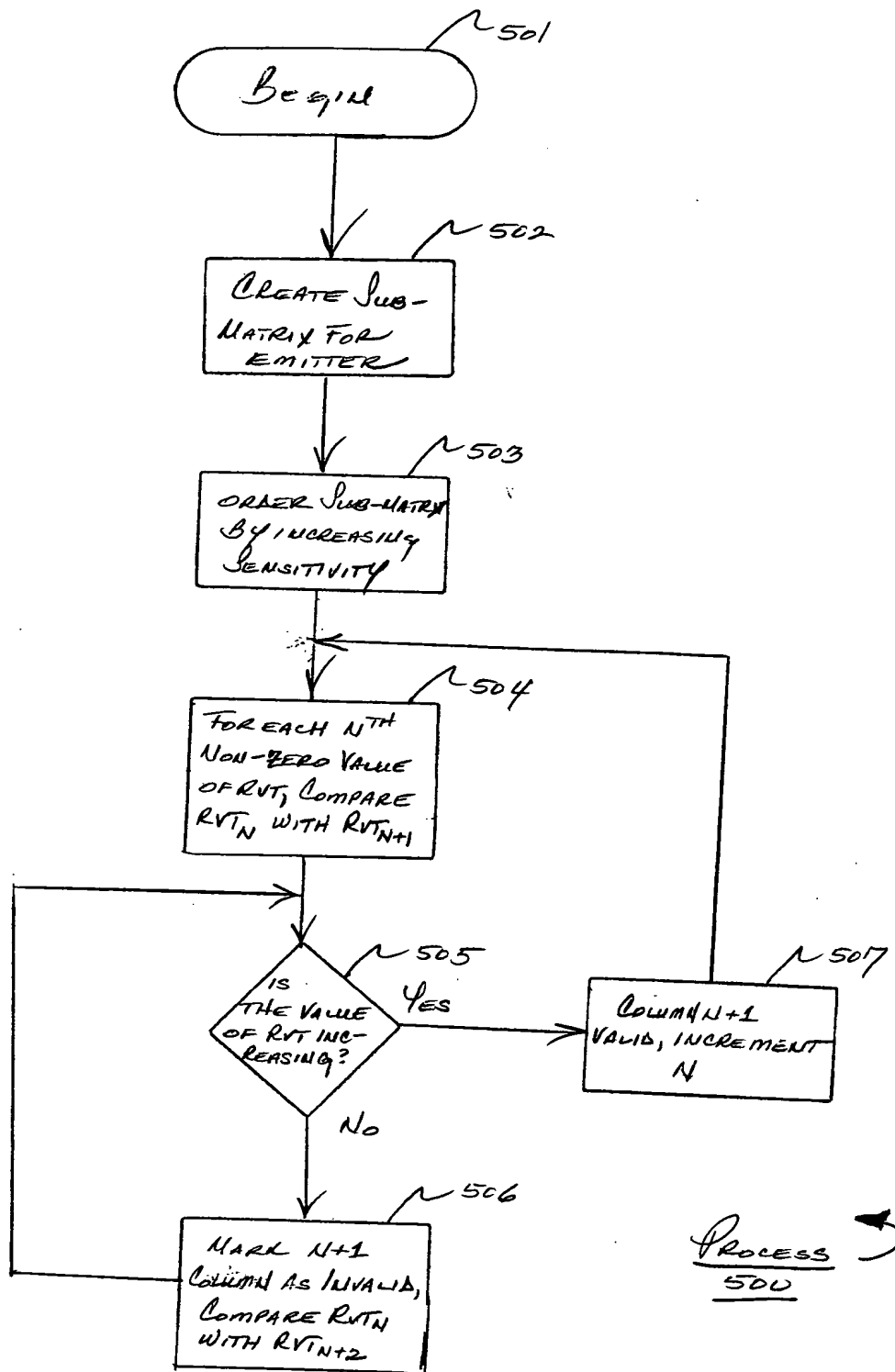


FIGURE 5

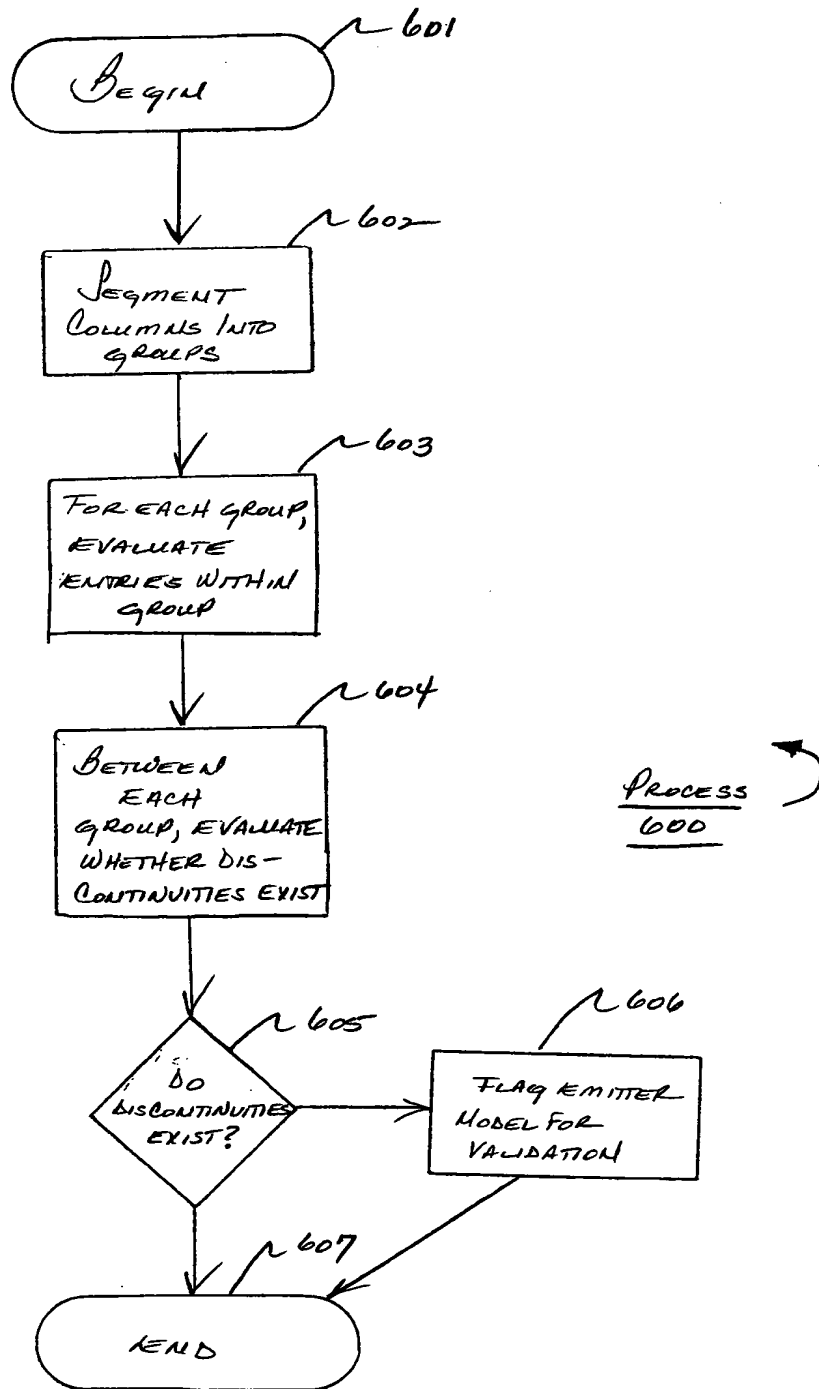


FIGURE 6

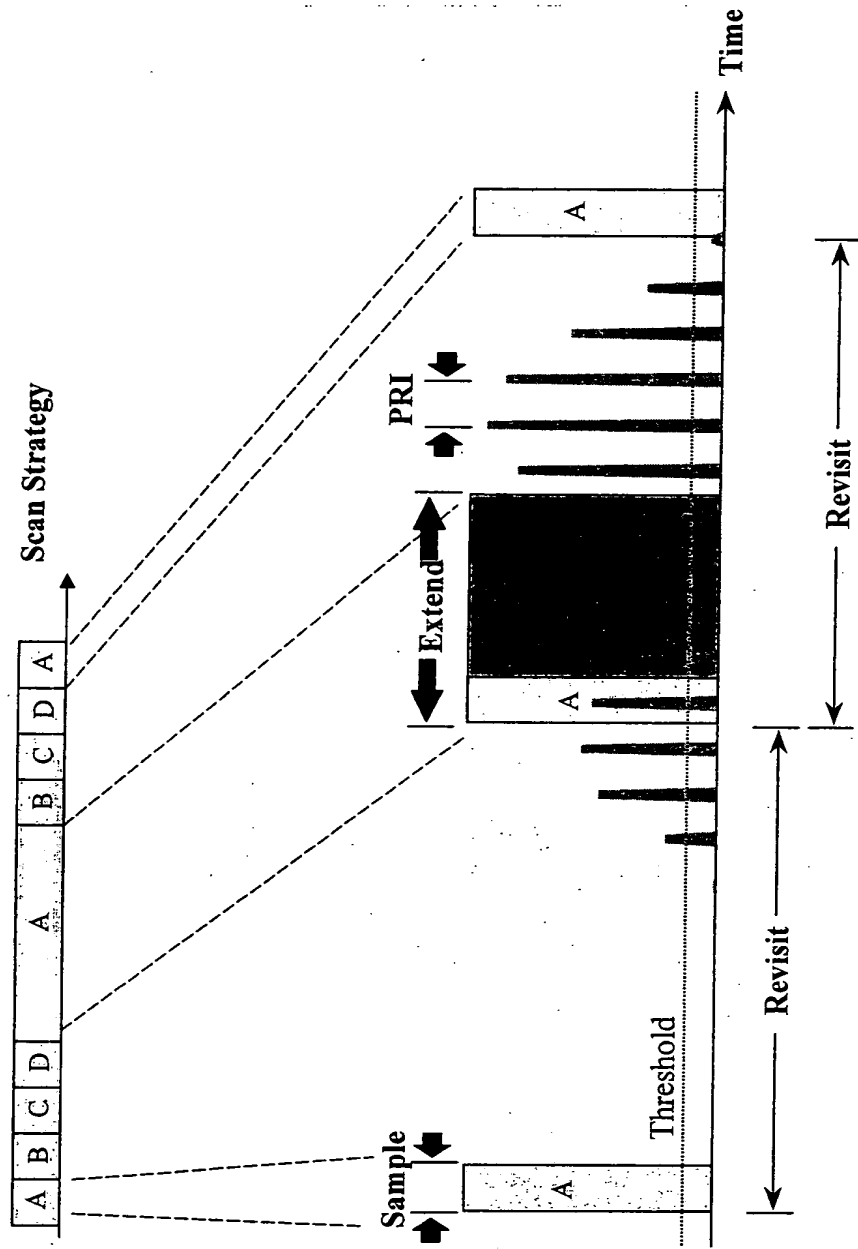


Figure 7

Figure 8A

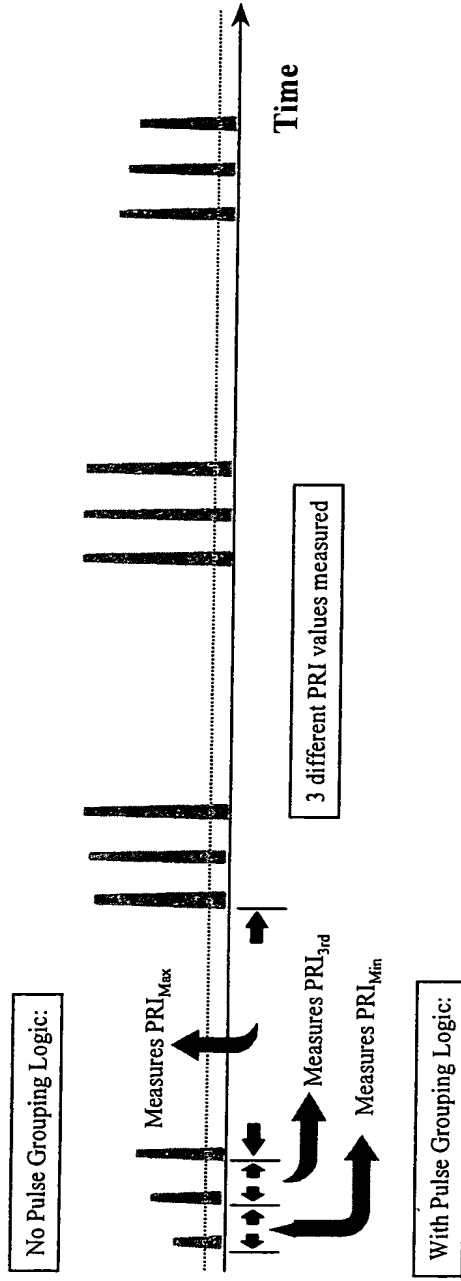


Figure 8B

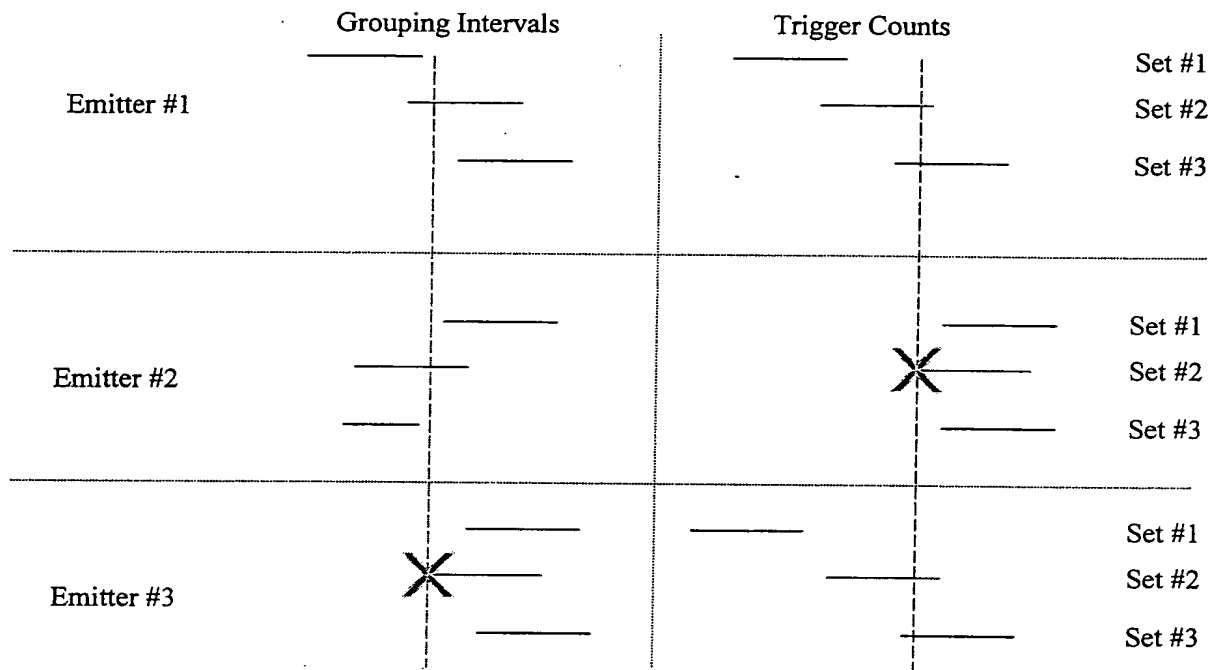
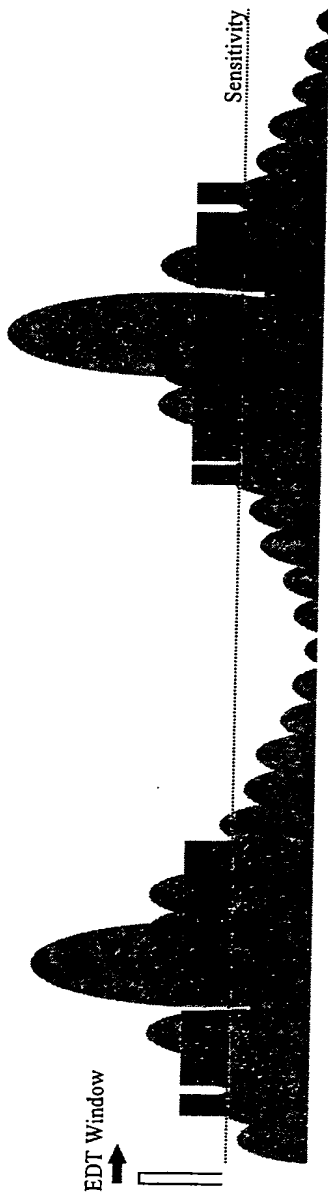


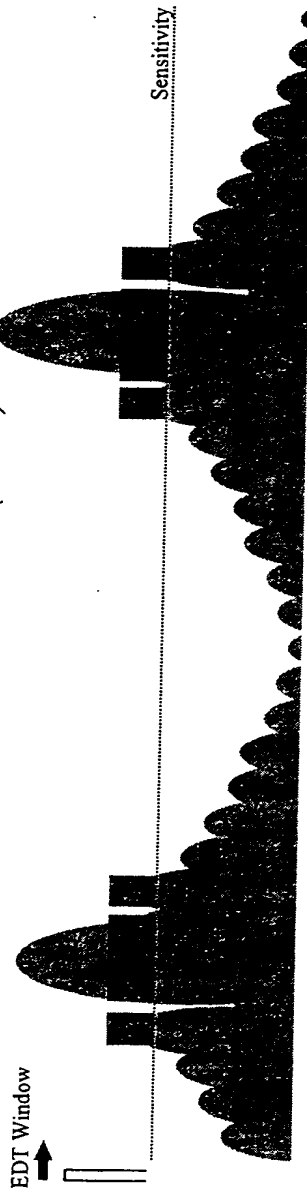
Figure 9

Figure 10A



Discrete Illuminations (TIBS)

Figure 10B



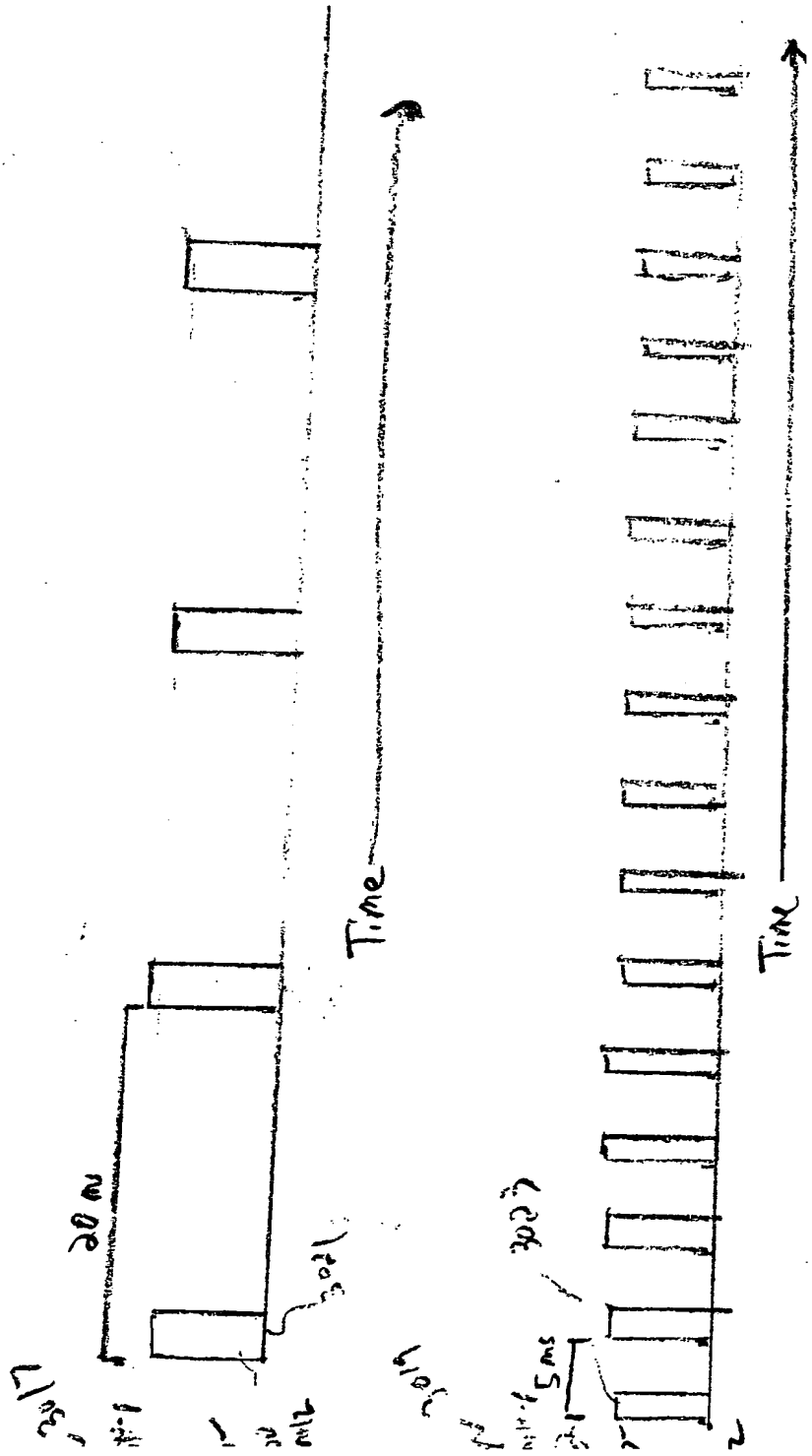
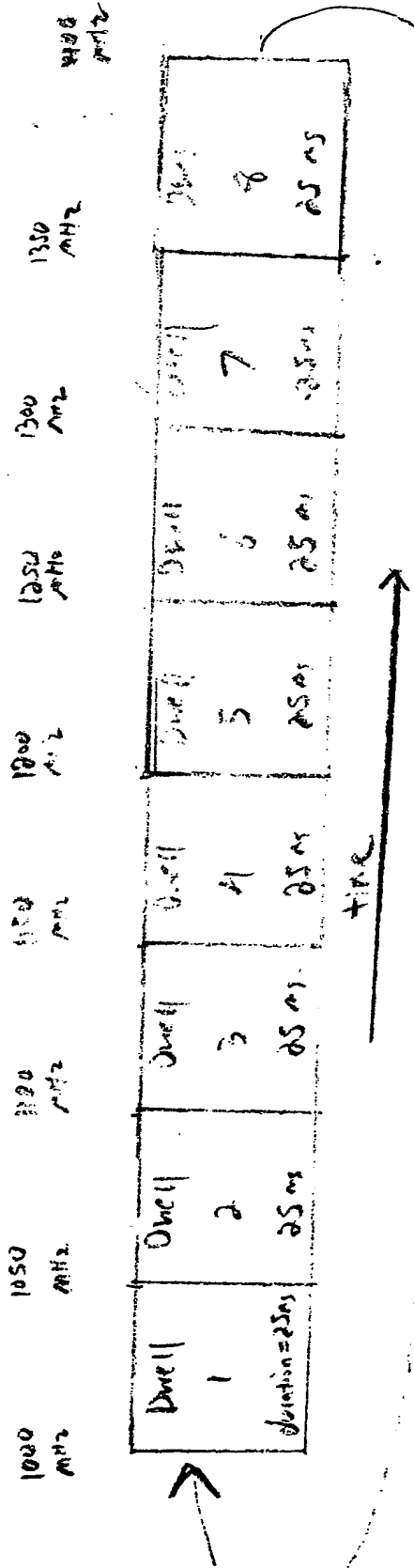
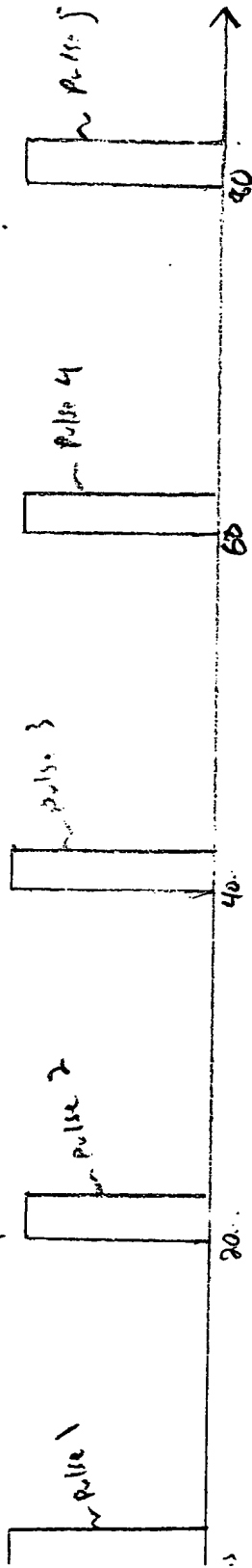
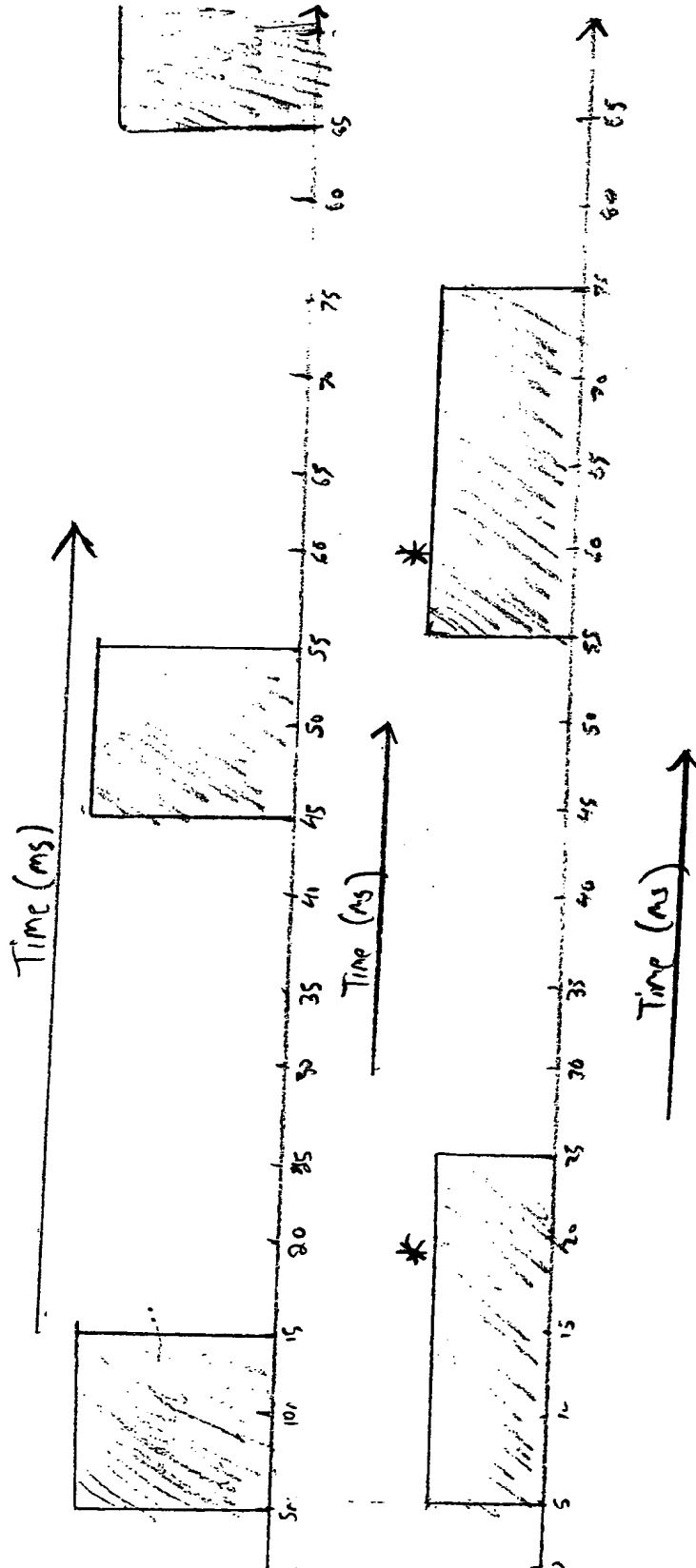


Figure 11

PRI = 20 μ s



Emitter 3101



Solution 1

Dwell Duration = 12 μ s

Revisit Time = 40 μ s

Solution 2

Dwell Duration = 20 μ s

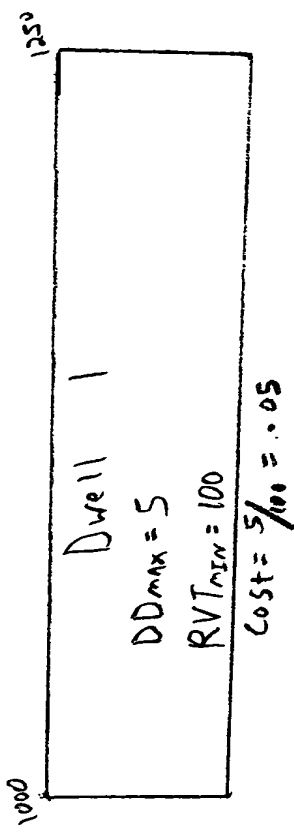
Revisit Time = 50 μ s

Figure 12

4000

Emitter Name	Switching Rate 250 MHz JFET 15 MHz VDM		Switching Rate 30 MHz JFET 15 MHz VDM		RF Min (MHz)	RF Max (MHz)	Mod (ms)
	RVT	AVT	RVT	AVT			
E1	100 ns	650 ns			1000	1300	3
E2	100 ns	780 ns			1220	1350	5
E3	110 ns	330 ns			1510	1910	2
E4	130 ns	390 ns			1730	1860	4

Figure B



Solution 1

	1000	1060	1120	1180	1240	1300	1370	
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}
3	3	3	3	3	3	3	5	5
RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}	RVT _{max}
650	650	650	650	650	650	650	650	650
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{3}{650} + \frac{3}{650}$	$\frac{5}{650} + \frac{5}{650}$	$\frac{5}{650}$

Solution 2

Total Cost = $\frac{31}{650} \approx .048$

Figure 14A

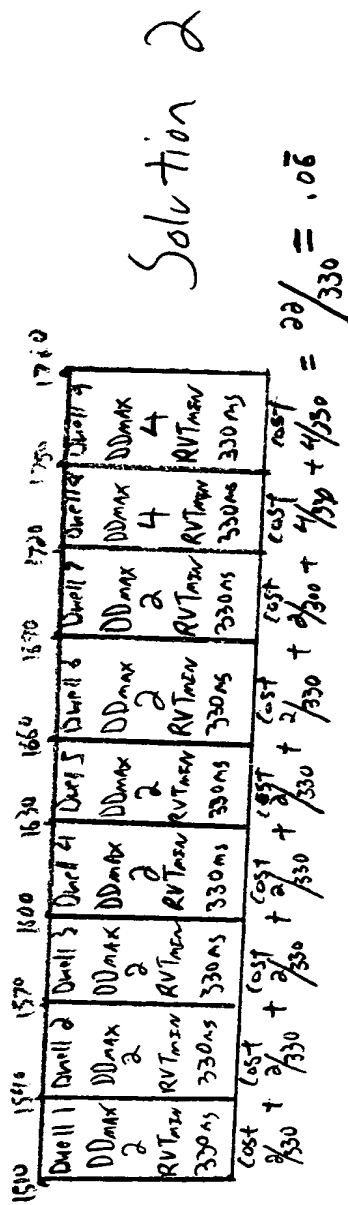
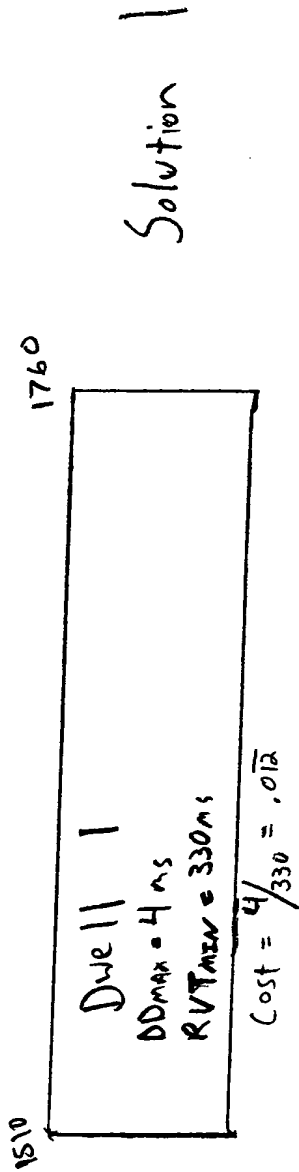


Figure 14B

Figure 15

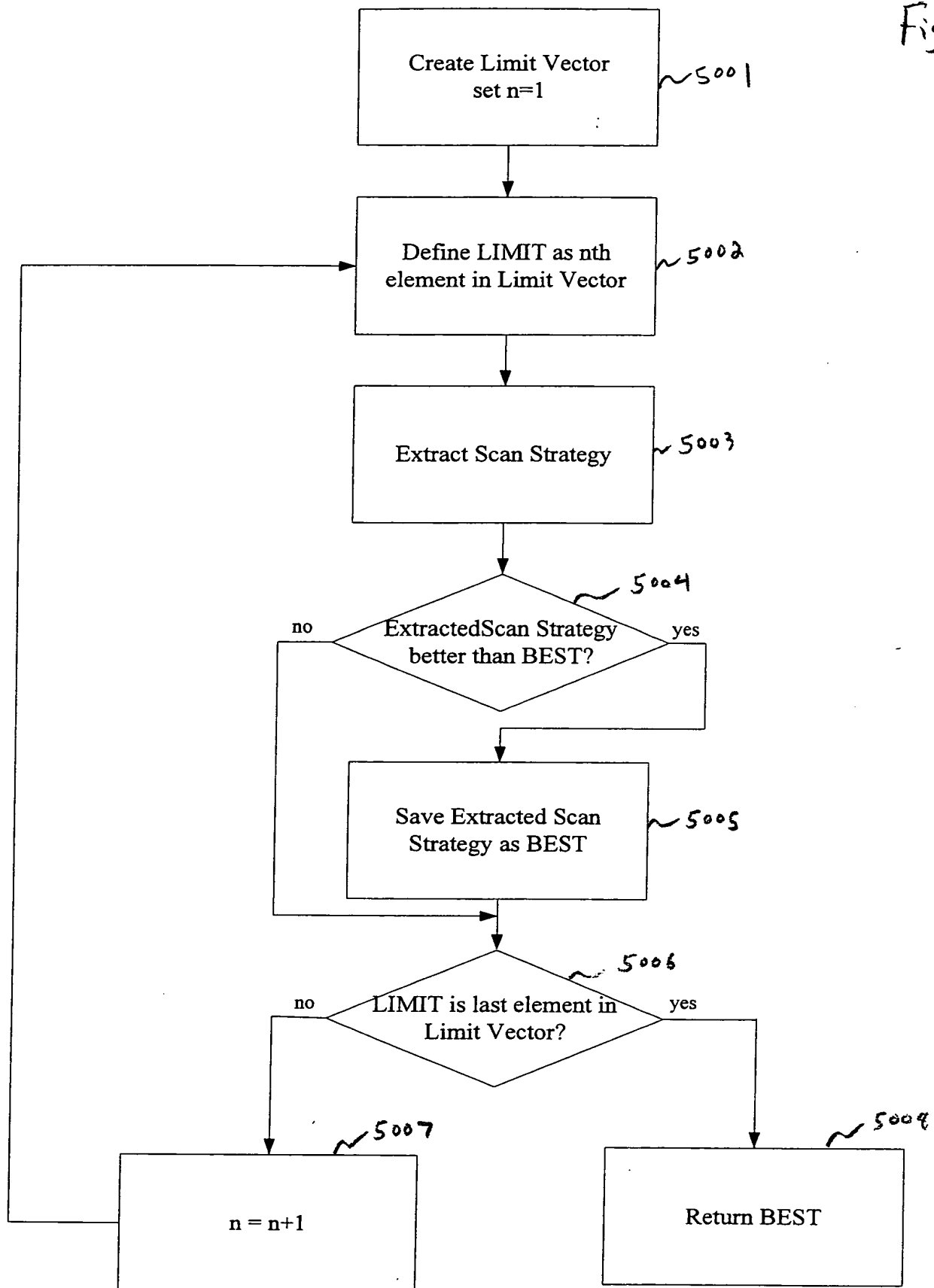
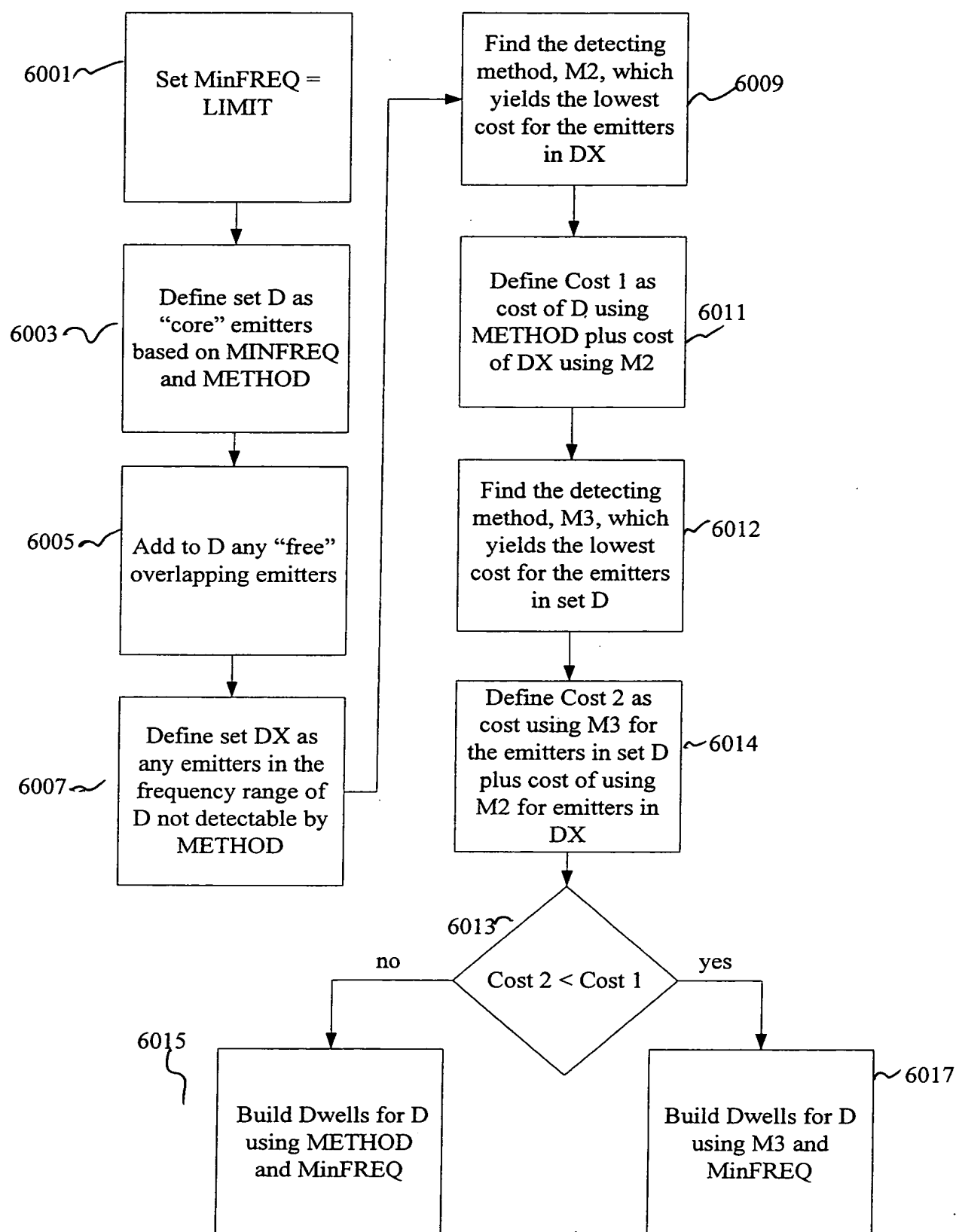


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

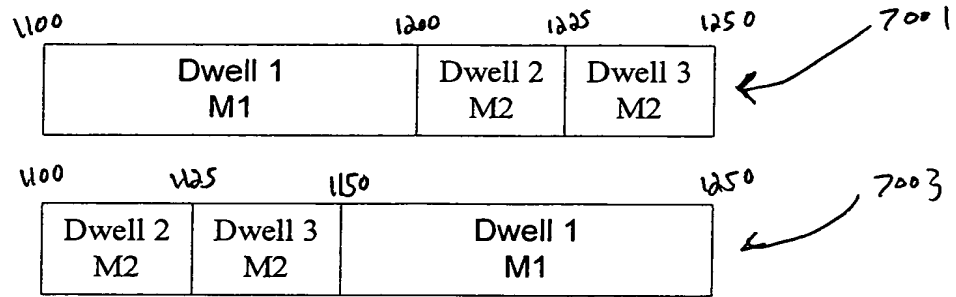
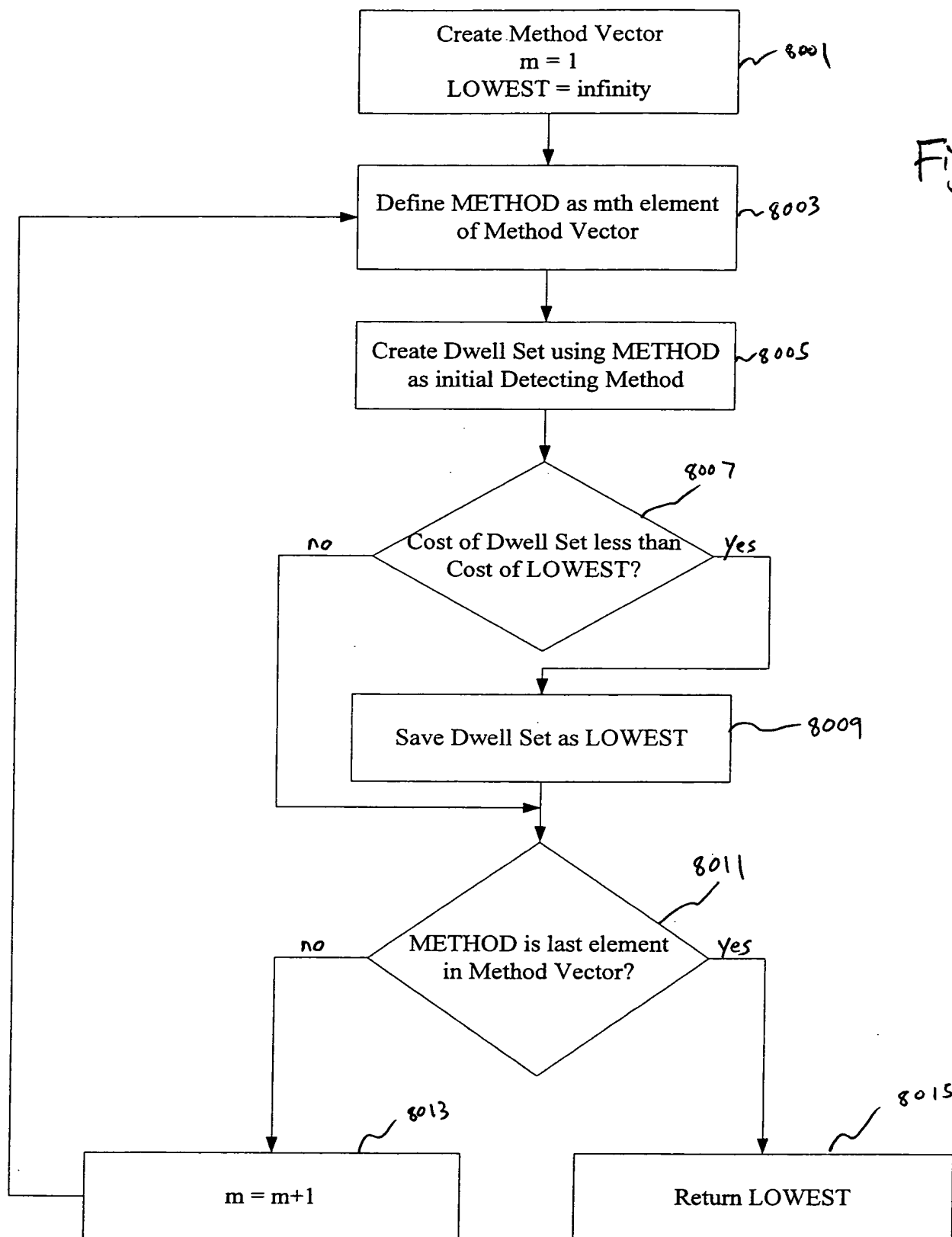


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

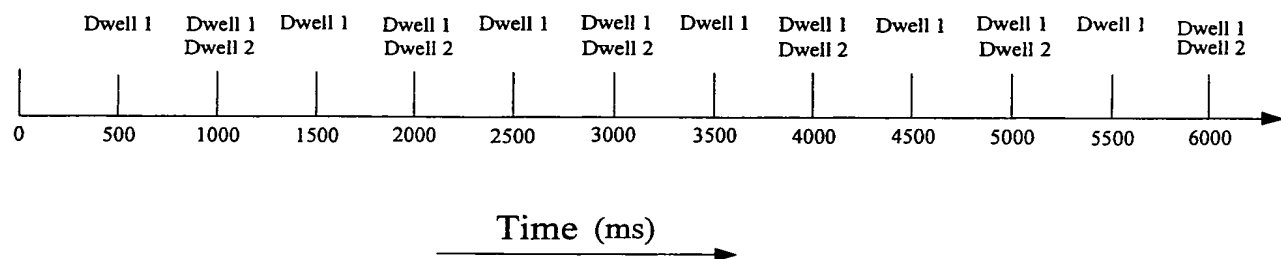


Figure 21

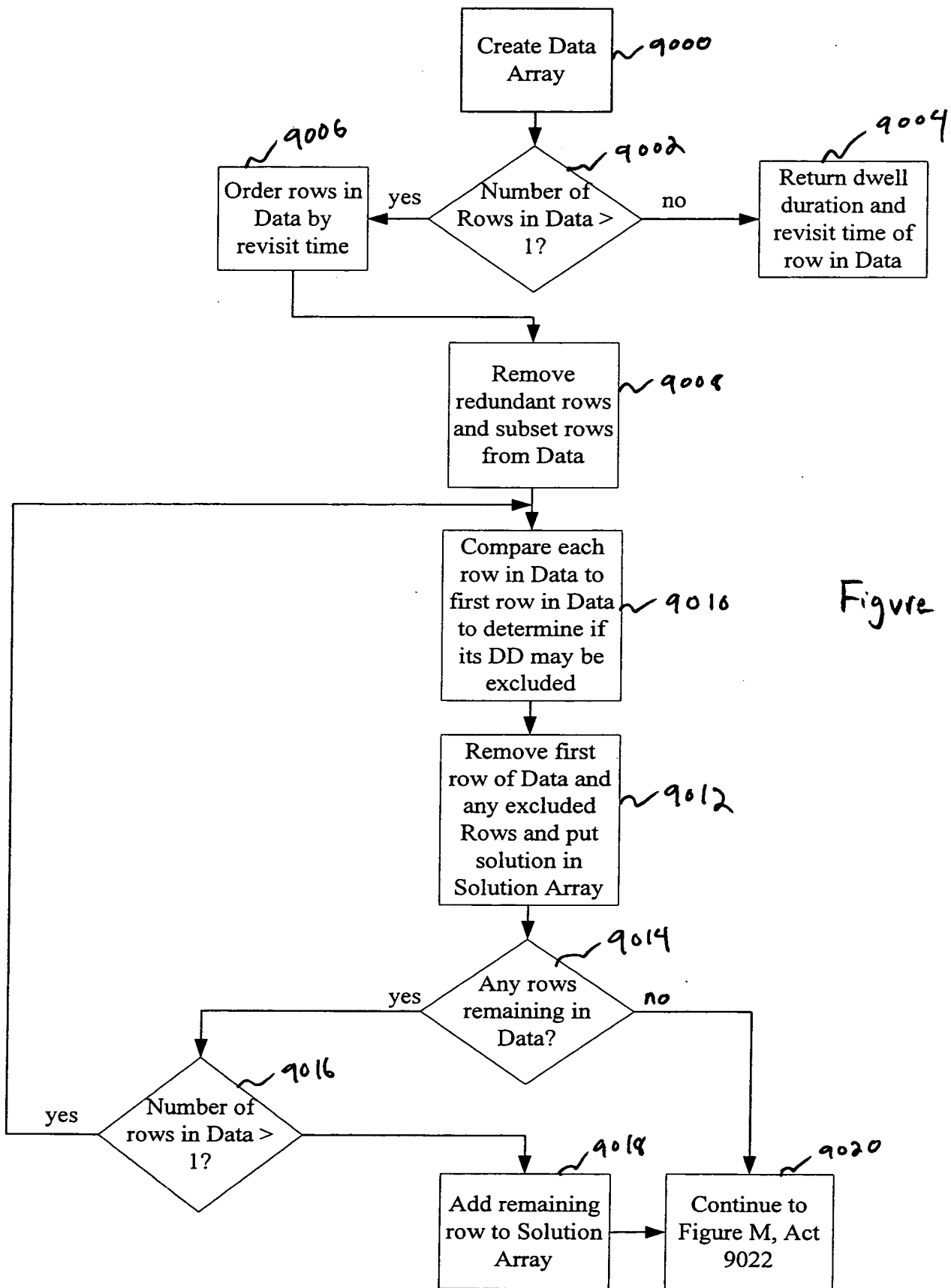
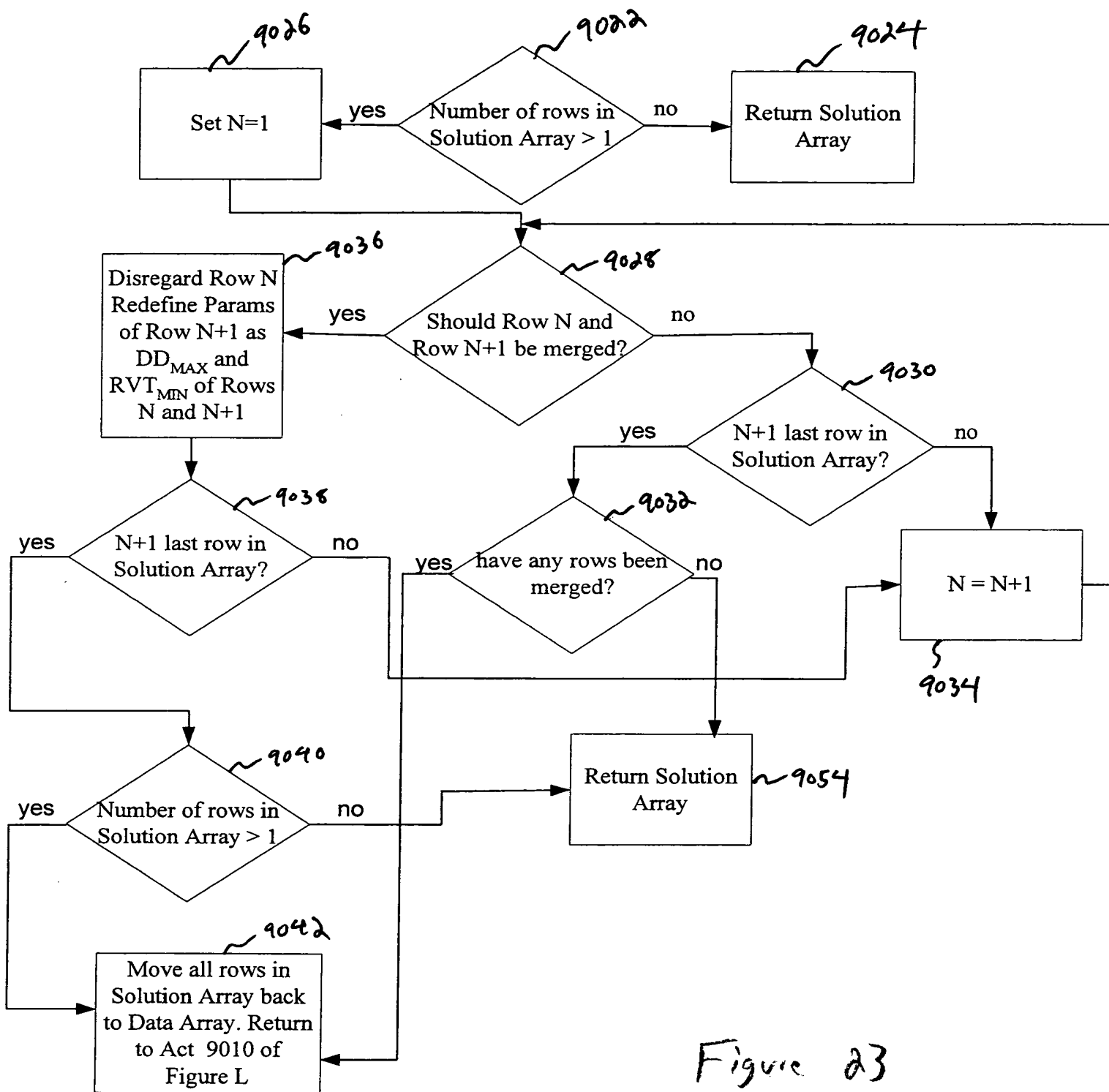


Figure 22



9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048
~ 9049
~ 9050

Figure 24B

9051
9052

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

~ 9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

~ 9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

~ 9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

~ 9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

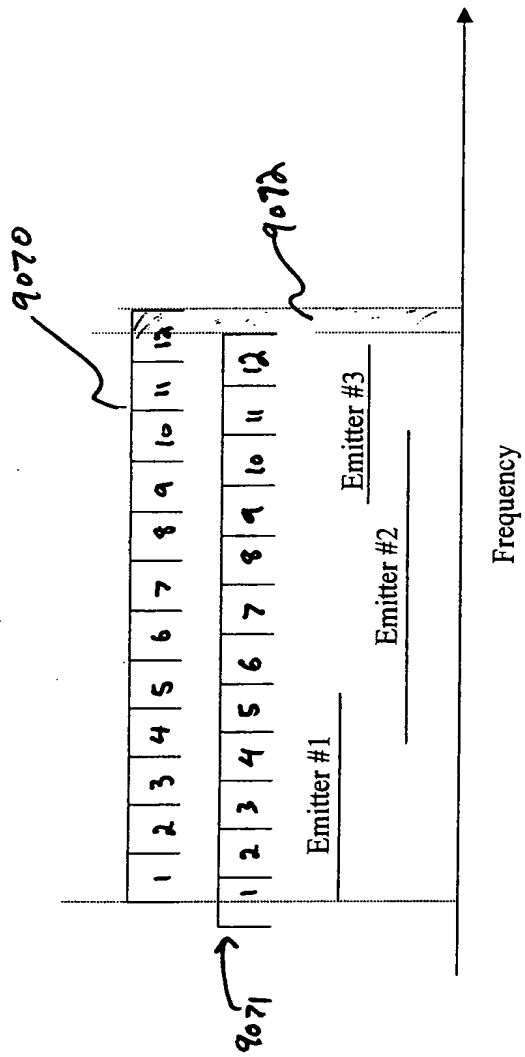


Figure 25

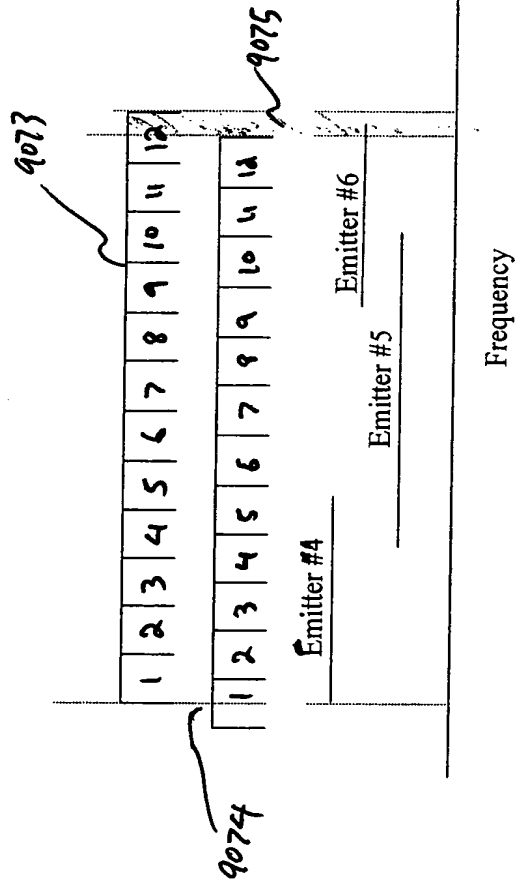


Figure 26

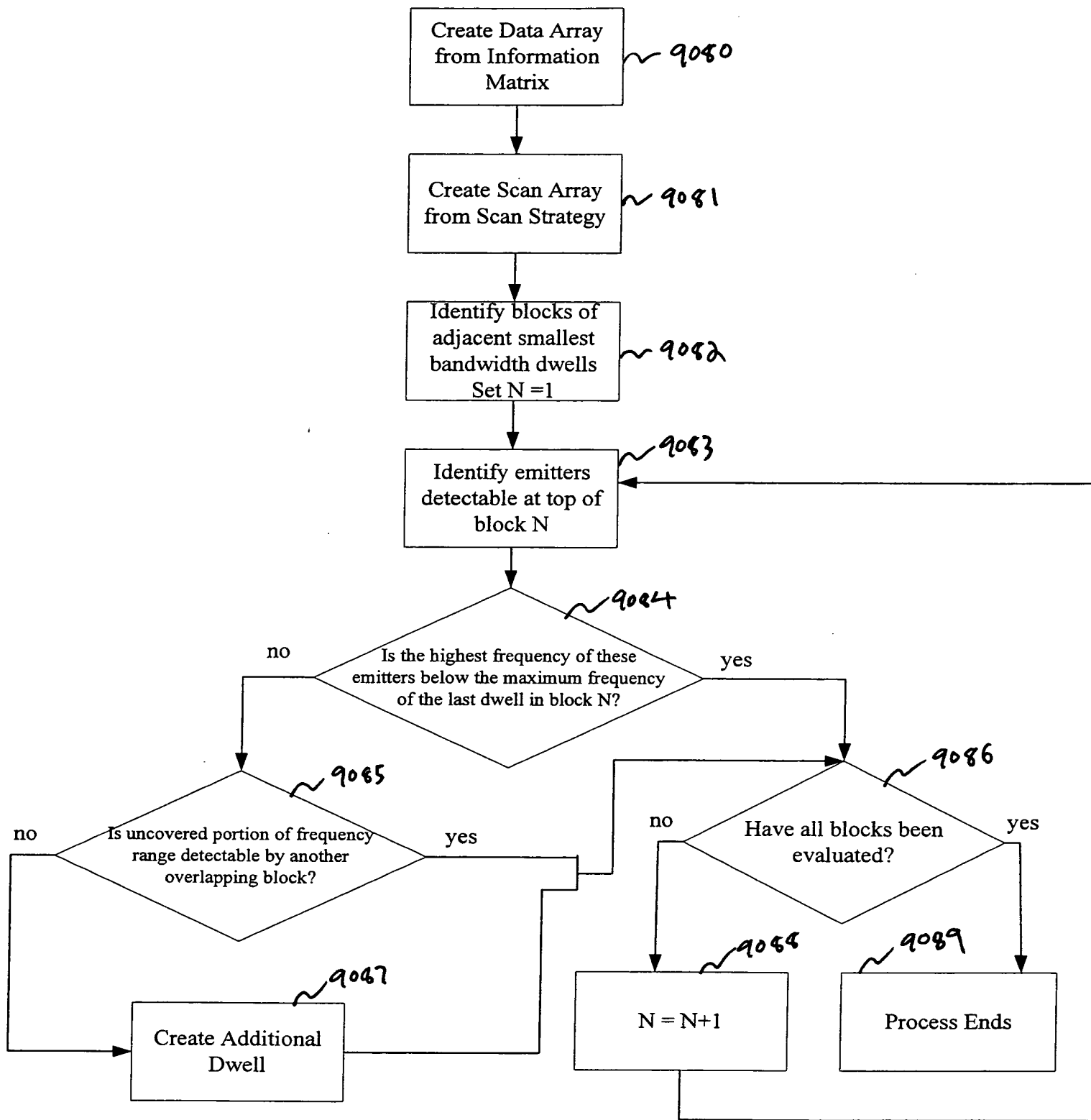


Figure 27

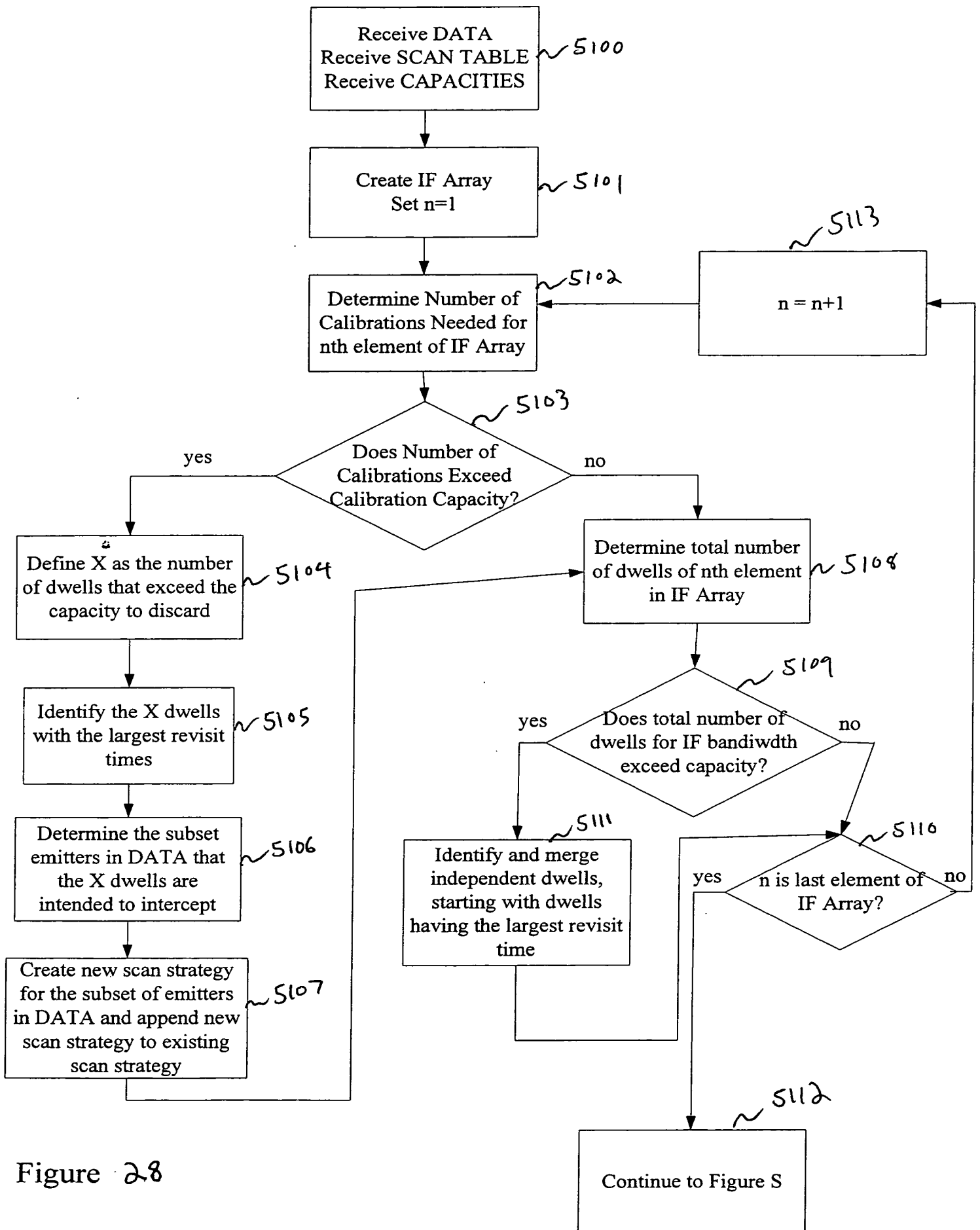


Figure 28

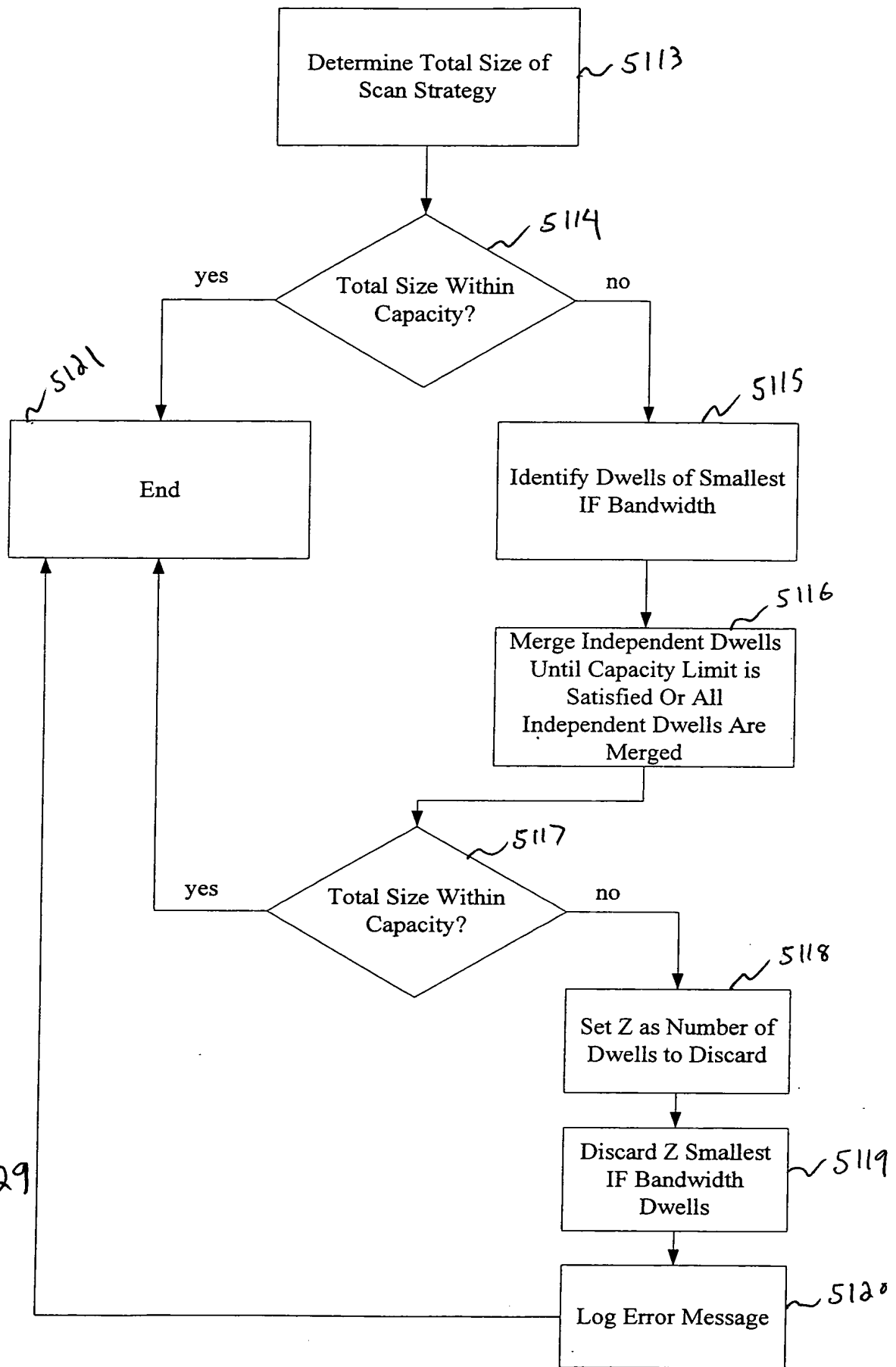


Figure 29

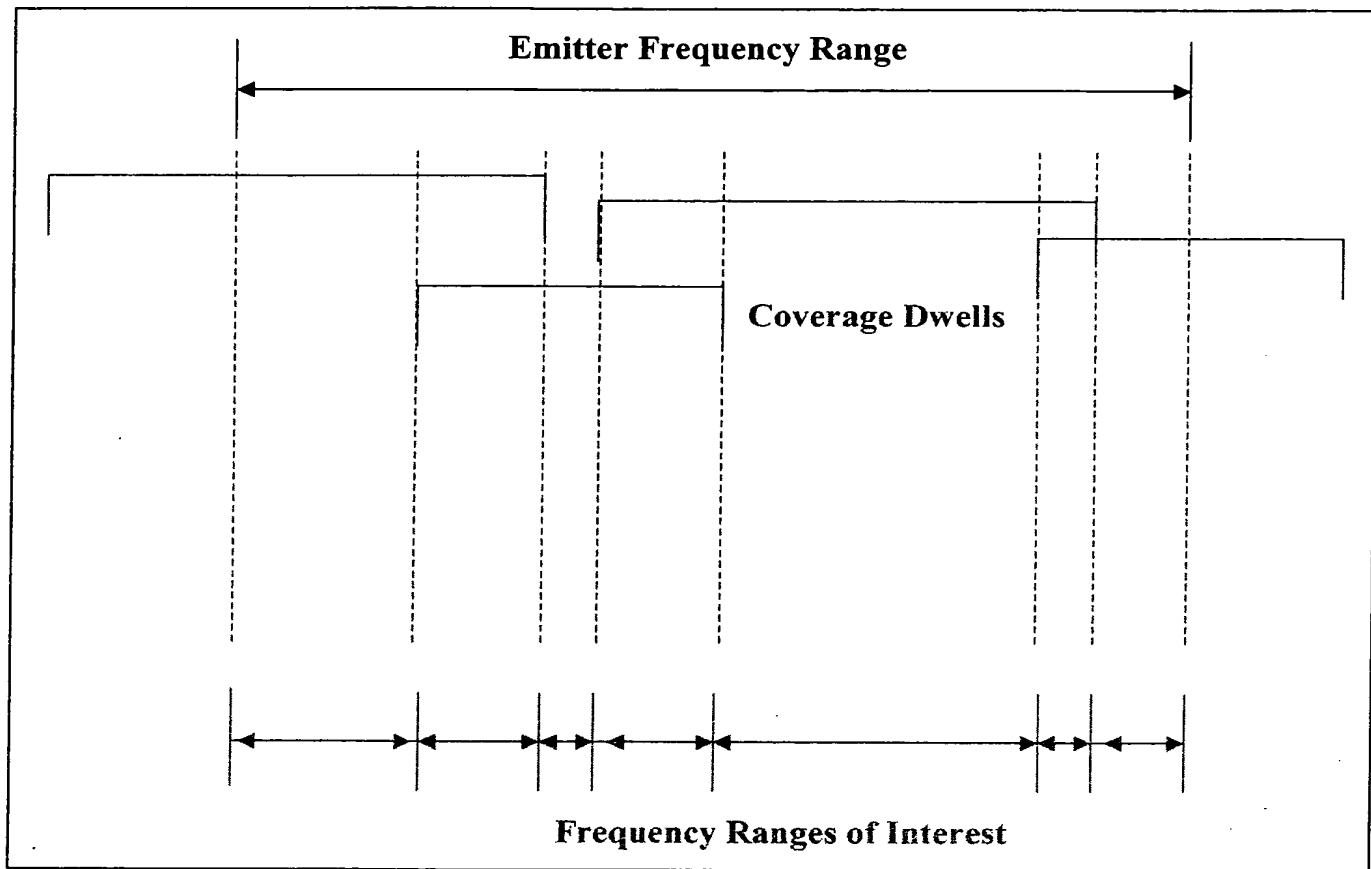


Figure 30

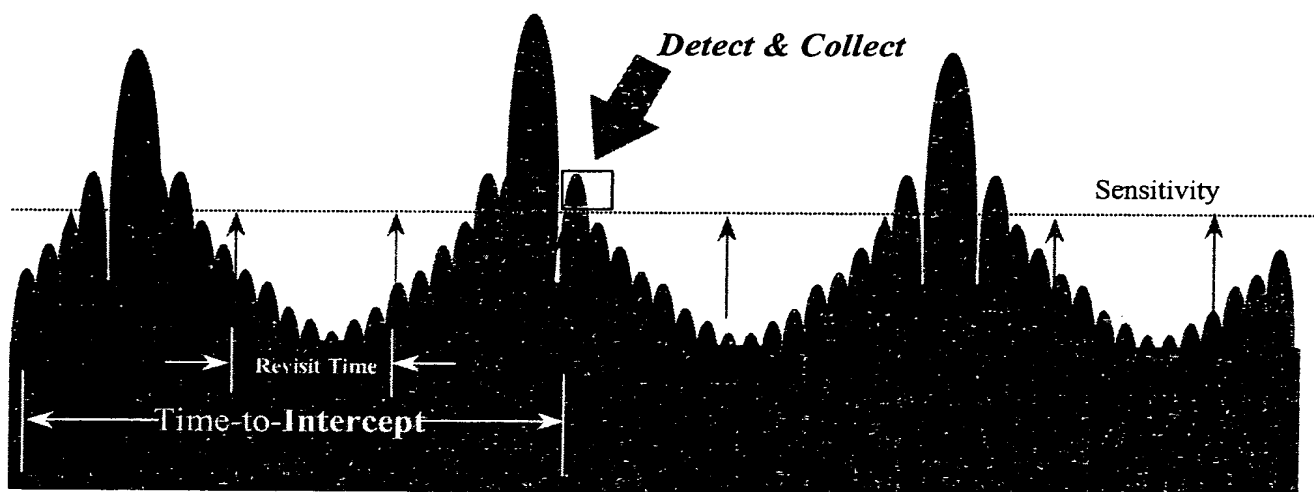


Figure 31

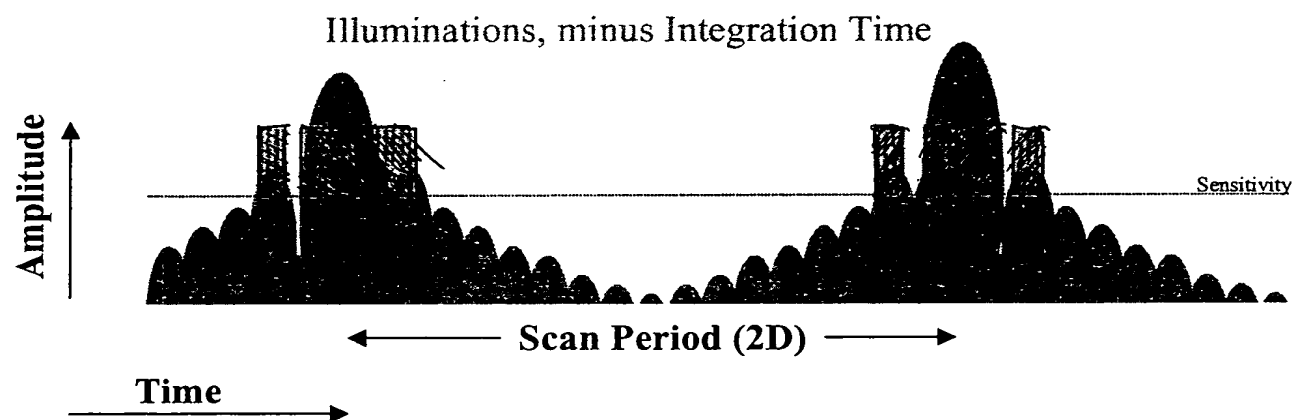


Figure 32